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Vol. V. Tropics in General and Tropical Mainland Asia, Pakistan, Nepal, and Bhutan

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and Soil Conservation Service
U.S. Department of Agriculture
Washington,D.C. 20250

Office of Agriculture
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BIBLIOGRAPY OF SOILS OF THE TROPICS

Vol. 5: Tropics in General and Tropical Mainland Asia, Pakistan, Nepal, and Bhutan

by

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Orvedal, Arnold C. 1975. Bibliography of soils of the Tropics: Tropics in general and Africa. U.S. Agency Int. Dev., Dev. Support Bur., Off. Agric. (Washington) Tech. Bull. No. 17, Vol. 1. 255 pp.

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BIBLIOGRAPHY OF SOILS OF THE TROPICS

Vol. 5: Tropics in General and Tropical Mainland Asia, Pakistan, Nepal, and Bhutan

Arnold C. Orvedal*

Items in this bibliography of soils of the Tropics were extracted from the collection of bibliographic cards in a file maintained by the soils staff of the Soil Conservation Service supplemented by searching at the National Agricultural Library, both of the U.S. Department of Agriculture.

The purpose of this bibliography is to make relevant contents of this file readily available to university researchers and others who may find the information useful.

Collection** of citations has been underway since 1945. These citations are mainly about soils outside the United States, and collectively, they contribute to knowledge about the geography of soils. Not only citations to soil maps are included in the collection but also thousands of references, which, even though without maps, contribute to an understanding of soils--their distribution, characteristics, classification, environment, and use. Because of the interest in soil environment and use, the collection includes some citations to references on geology, geomorphology, landforms, vegetation, climate, and land use that contribute to the knowledge about soils of an area and aid in the prediction of kinds of soils, or at least some of their characteristics, where soil maps based on field work are lacking.

Because of the unique interest of the staff collecting and using geographic information about soils, the collection is short on references that do not contribute, either directly or by inference, to geographic information about soils. Hence, citations about fertilizer technology, soil chemistry, soil physics, soil microbiology, etc., generally are not included unless they also have some relevance to soil geography.

This bibliograpy, therefore, does not cover equally all aspects of soil science. Neither, as the following paragraph explains, is it necessarily exhaustive for soil geography of all areas. Users are invited to submit additions and corrections (see "tear-out" sheets).

The collection of citations has been secondary to the primary missions of the soils staff using geographic information about soils. Consistent attempts were made to take full advantage of every opportunity to add citations to the bibliographic file, but due to duress of time or other constraints, some have been missed. Many citations were recorded as they were found under "literature cited" for articles in bibliographies, reviews, and other sources. Completeness and format of source citations varied, and some errors in dates or spelling may have been introduced inadvertently.

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*Soil scientist. Retired from Soil Conseration Service.
**Collecting was done for many years by the Soil Geography Unit, the reduced staff and functions of which in a 1976 reorganization were incorporated into another staff group. Until 1952, the unit was in the Division of Soil Survey, Bureau of Plant Industry, Soils and Agricultural Engineering, and until 1970, was called the World Soil Geography Unit.

The citations have been put into a uniform format, although a few are not complete. There is a degree of inconsistency in the handling of citation to non-English references. In some citations to such references, titles are translated; in others, not. Similarly, but less commonly, in some citations, the name of the journal or corporate author is translated into English and in others not. If the file card indicated a non-English language for a reference with a title translated into English, this fact is indicated in the bibliography by annotation. Such information is lacking for some citations, although the reader usually can make a reasonably accurate guess about the language in which the references is written.

Diacritical makrs are omitted from titles in Spanish and other non-English languages.

A unique feature of volume 5 is the inclusion of call numbers in the citations to literature held by the National Agricultural Library, U.S. Department of Agriculture, Beltsville, Md. Such call numbers appear in all parts of volume 5 except "Tropics in General (citations reprinted from volume 1, 1975)."

ORGANIZATION OF THE BIBLIOGRAPHY

This is the fifth and last of several volumes planned. Each contains, as its first part, those citations relevant to the Tropics in general without orientation to any single continent or country. The second part pertains to tropical parts of continents, or to large island groups, and to countries or other geographic entities within these large regions.

Organization of the citations is indicated under the contents. Under a geographic heading, the citations are grouped according to texts or maps to the extent such groupings are practical. As many text references contain maps and many map references contain some text material, the groupings are seldom clean cut. Arrangements within groups is alphabetic by author.

Adjunct File of AGRICOLA

The entire Bibliography of the Soils of the Tropics is being made an adjunct file of the huge AGRICOLA data base of the National Agricultural Library, U.S. Department of Agriculture. Once on line, anyone with access to the AGRICOLA data base will be able to search electronically the entire bibliography. For information about the AGRICOLA data base and how to get access to it, persons may write to Information Systems Division, National Agricultural Library, U.S. Department of Agriculture, Beltsvile, Md. 20705.

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Thesiger, W. 1946. A journey through southern Rub El Khali. Geogr. J. (London) 108: 129-145. 472 G29.

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ADDENDA

Dixon, Joe B., Brian F. Viani, S. Y. Lee, Abdo S. Al-Mashhady, and M. M. Aba-Husayn. 1980. Final report: The study of the physical, chemical and mineralogical properties of certain soil areas in the Kingdom of Saudi Arabia. Texas A & M Univ. (?) and (Saudi Arabia) Minist. Agric. (?). 247 p.

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Jack King and Terry Forbes are soil scientists on this team. Contains a page-size map of geology and another of land-form regions, both at scale 1:4,500,000.

BANGLADESH (Formerly East Pakistan)

Abbas, B. M. 1966. Development of deltaic areas: East Pakistan. 6th Congr. Irrig. Drain. (New Delhi) Trans. 4:21.401-21.416. TC805.C6.
Contains several page-size maps including one showing areas normally flooded and those subject to saline inundation.

Abbas, B. M. 1963. Utilization and development of the deltaic area of East Pakistan. In Proceedings of the regional (Bangkok) symposium on flood control, reclamation, utilization and development of deltaic areas. p. 133-151. (UN) Econ. Comm. Asia Far East (ECAFE) Water Resour. Ser. No. 25. 224 p. 290.9 UN35f
Contains ½-page maps, scale 1:5,000,000, of Bangladesh showing physiographic divisions, rivers, power development and water development.

Ahad, S. A., and M. A. Wahed. 1967. A pedogenic study of soils of Rangamatic Tillas, Fatikchnari, Chittagong. Pakistan J. Soil Sci. (Dacca) 3(2): 38-42.

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Contains maps.

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Beattie, A. A., and L. J. S. Attewell. 1977. A landslide study in the Hong Kong residual soils. In Proceedings of the fifth southeast Asian (Bangkok) conference on soil engineering. p. 177-188. Thai Watana Panich Press, Bangkok. 453 p. TA710.A1S548.

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Contains page-size maps and a few comments about Macau.

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So, C. L. 1970. Landform study in East Lantau. Geogr. Teacher (Hong Kong). p. 11-17.
Contains maps.

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Text contains a map, ½-page size, of soil pH.

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Research on 7 samples of surface soil representing Black, Red and Laterite soil groups in Tamil Nadu.

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Research on 2 long term plots at Central Rice Res. Inst., Cuttack, Orissa.

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On Malwa Plateau, Madhya Pradesh.

Banerjee, S. P. 1976. Characteristics of some soils of upper Sipra river catchment in Madhya Pradesh. Indian For. 102(3): 152-160. 99.8 In2.

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Study of 20 soil samples from Morena and Gwalior districts.

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Research on samples of 5 profiles.

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Research on 6 soil profiles in Vidarbha, Maharashtra.

Barbaris, C. J., and C. L. Patel. 1980. Effect of application of iron, farmyard manure and sulphur on the availability of iron in medium Black calcareous soil at different moisture contents. J. Indian Soc. Soil Sci. 28(3): 302-306. 56.9 In2.
Research on a bulk sample of surface soil, Univ. Farm, Junagadh, Gujarat.

Basu, J. K. 1944. Soils of the Deccan canals: 4, Studies in availability of nitrogen in farmyard manure and sulphate of ammonia when applied to various soil types. Indian J. Agric. Sci. 14(2): 101-109. 22 Ag831.
Research on 5 soils common in the Bombay-Deccan.

Basu, J. K. 1950. Problems of saline soils in the Bombay state, India. 4th Int. Congr. Soil Sci. (Amsterdam) Trans. 3: 169-172. 56.09 In844.
Contains a page-size map of climatic information of Bombay State.

Basu, J. K., and C. Rosario. 1944. Soils of the Deccan canals: 7, Studies of availability of nitrogen in farmyard manure and sulphate of ammonia when applied to various soil types. Indian J. Agric. Sci. 14(2): 101-109. 22 Ag831.
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Basu, J. K., and S. S. Sirur. 1942. Changes in the colloidal complex of some typical Deccan soils in different phases of development. Indian Soc. Soil Sci. Bull. No. 4. ? p.

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Basu, J. K., and V. D. Tagare. 1954. Land utilization surveys of saline soils of the Bombay state. J. Soil Water Conserv. India 3(1): 24-27. 56.8 J824.

Basu, J. K., and V. D. Tagare. 1943. Soils of the Deccan canals: 4, The alkali soils, their nature and management: 5, Investigations into the causes of soil deterioration under intensive system of sugarcane growing, with special reference to the changes in physico-chemical properties of the soils: Soil fertility survey on the Nira left bank and Godvari canals. Indian J. Agric. Sci. 13(2): 157-181, 13(6): 572-586. 22 Ag831.

Basu, J. K., and V. D. Tagare. 1950. On the nature of Karl (alkali) soils of the Karnatak. Coll. Agric. Dharwar Mag. 3(1): 1-4. S19.C6.

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Basu, J. K., S. Narayanaswamy, and N. D. Rege. 1956. Land-use planning for the Nilgiris: 1, Soil conservation survey: 2, Classification of land utilization. J. Soil Water Conserv. India 5(1): 25-36, 36-43. 56.8 J 824.
Contains page-size maps, scale 1:500,000, of vegetation and rainfall of the Nilgiris District, Tamil Nadu, and two fold-in maps, scale 1:8920, of topography and land use of the Ketty sub-catchment.

Basu, S. S., and S. S. Sirur. 1938. Soils of the Deccan canals: Genetic soil survey and soil classification: Nira right bank and Pravara canals. Indian J. Agric. Sci. 8(5): 637-697. 22 Ag831.
Contains a page-size map of Bombay-Deccan showing isohyts and major canals and a page-size map of India showing distribution of Black Cotton soils.

Beckmann, W. 1972. Soil formation in southern Indian mountains. In Soil micromorphology: Proceedings of the third international working-meeting on soil micromorphology, Warsaw, Poland, 1969. Zeszyty Problemowe Postepow Nauk Rolniczych (Warsaw) 123: 399-406. 20.5 Z5.
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Bendale, J. R., N. Narayana, and M. M. Kibe. 1951. Trace-element contents of Black Cotton soils of a few citrus-growing tracts of Bombay state. Poona Agric. Coll. Mag. 42(1): 3-10. 22 P79.

Bhadrapur, T. G., and T. Seshagiri Rao. 1977. Salt effected Black soils: Chemical characteristics and sodium divalent cation exchange relationships. J. Indian Soc. Soil Sci. 25(1): 11-17. 56.9 In2.
Research on a soil at Agric. Res. Stn., Siruguppa, Karnataka state.

Bhadrapur, T. G., and T. Seshagiri Rao. 1979. The effect of seepage and waterlogging on the development of saline and sodic soils in Tungabhadra project area of Karnataka. J. Indian Soc. Soil Sci. 27(4): 408-413. 56.9 In2.
Contains a ½-page sketch map showing location of salt-affected soils in Tungabhadra Project area.

Bhadrapur, T. G., T. Seshagiri Rao, and K. R. Kulkarni. 1970. Laboratory studies on effect of soil amendments on aggregation and other physical properties in selected soils of Mysore state. Mysore J. Agric. Sci. 4(1): 61-68. S19.M9.
Study of 4 soils in Karnataka.

Bhagat, D. T., and P. M. Tamboli. 1966. Effect of some agricultural implements on physical, chemical and biological properties of a soil of Jabalpur. J. Indian Soc. Soil Sci. 14(2): 77-83. 56.9 In2.
Experiment on a clay loam of Jabalpur, Madhya Pradesh.

Bharambe, P. R., and D. K. Ballal. 1976. Physico-chemical properties of forest soils in Nagpur district. J. Maharashtra Agric. Univ. 1:184-188. S471.I3J6.
Study of 5 soil profiles in Maharashtra.

Bhargava, G. P., N. R. Datta Biswas, and S. V. Govinda Rajan. 1973. Studies of the Tungabhadra catchment soils: 1, Environmental characteristics and soil morphology. J. Indian Soc. Soil Sci. 21(1): 91-103. 56.9 In2.
In Karnataka. Article states that a soil survey was made. Principal soil groups are Black, Red, and Alluvial.

Bharucha, F. R., and M.Y. Ansari. 1963. Studies on the plant associations of slopes and screes of the western Ghats, India. Vegetatio (The Hague) 11(4): 141-154. 450 Y52.
In English. Contains some soil information.

Bhatia, K. K. 1958. Mixed teak forest of central India. J. Ecol. (London) 46(1): 43-63. 450 J829.
Research at Pathria Forest, Sagar, Madhya Pradesh. Contains some information on soils.

Bhattacharjee, J. C., N. K. Shende, and T. B. Raut. 1971. Morphology and distribution of soils of lower Ib watershed. J. Indian Soc. Soil Sci. 19(4): 423-439. 56.9 In2.
Contains a ½-page map, scale 1:1,000,000, of "Geomorphic Setting of Ib Catchment", and descriptions of 12 soil series. In Orissa.

Bhattacherjee, J. C., R. J. Landey, and A. R. Kalbande. 1977. A new approach in the study of Vertisol morphology. J. Indian Soc. Soil Sci. 25(3): 221-232. 56.9 In2.
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Issued with the map, published by the Indian Counc. Agric. Res. Text in French; map in English and French. On margin of the 1:1,000,000 map there are 6 additional maps at scale 1:5,000,000; one of these is on soils.

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Contains 9 page-size maps, including, at scale 1:6,000,000, Soil Map of Madras State; 5, scale 1:900,000, of Tanjore Delta (in Tamil Nadu), showing contents in soils of nitrogen, phosphorus, etc.; 3, scale (?), of the Tungabhadra Soil Survey area (Karnataka) showing distribution of soil types and soluble salts; and 1, scale 1:200,000, of the Gundlakama Project Soil Survey (Andhra Pradesh) showing soluble salts.

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Katre, R. K., and M. B. Russell. 1974. Note on evapotranspiration by profile-depletion method in deep Vertisol. Indian J. Agric. Sci. 44(11): 781-782. 22 Ag831.
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Khan, H. Hameed, T. M. Thiyagarajan, C. S. Balasundaram, S. Ramanathan, G. Rajendran and S. Natarajan. 1977. Soils of Kovilpatti taluk; Their use and applications for dryland agriculture and planning. Madras Agric. J. 64(8): 497-505. 22 M262.
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Study of a non-calcareous medium Black soil (Vertisol) in Maharashtra.

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Contains a fold-in "Soil Map of Bombay State", scale 1:3,250,000. Now parts of Gujarat, Maharashtra and Karnataka.

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Abstract of thesis for postgraduate degree at Univ. Agric. Sci., Bangalore, Karnataka. Manoli is in Belgaum District, Karnataka.

Koshy, M. M. 1970. Chemical nature of organic complexes in Kerala soils. Current sci. (Bangalore) 39(15): 353-354. 475 Sc123.
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In vicinity of Bombay, Maharashtra.

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Research on soil sample from Agric. Res. Stn. at Nanjanad, Nilgiris, Tamil Nadu state.

Martins, Jose Avila. 1962. Os fenomenos de metamorfismo e granitazacao no distrito de Goa. (Portugal) Minist. Ultramar, Junta Invest. Ultramar, Est. Ens. Doc. No. 92. 96 p. (plus 24 full page pictures). 330.9 P83.
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Mathan, K. K., and D. John Durairaj. 1967. Availability of phosphorus in Nilgiri soils. Madras Agric. J. 54(1): 25-33. 22 M262.
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Mathan, K. K., and D. John Durairaj. 1967. Phosphorus fixation in Nilgiri soils. Madras Agric. J. 54(2): 64-70, 54(8):421-427. 22 M262.
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In Tamil Nadu.

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Mehta, B. V. 1976. Potassium status of Gujarat soils. In Potassium in soils, crops and fertilizers. p. 24-32. Indian Soc. Soil Sci. Bull. No. 10. 345 p. S590.I58.
According to 8 soil groups in Gujarat.

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Mehta, H. C., R. S. Joshi, and M. F. Thomsic. 1972. Effect of pumping and surface drainage in controlling water-table, waterlogging and salinity conditions on deep Black Cotton soil area. In (India) Central Board of Irrigation and Power (New Delhi). Symposium on waterlogging--Causes and measures for its prevention. p. 115-123. Publ. 118. Vol. 2, 170 p. 55.9 In222.
Research at Agric. Coll. Farm, Kakrapan Irrig. Project, Navsari, Gujarat. Contains a soil map of this farm, scale 1:50,000, and another map showing area waterlogged and saline-affected on this farm.

Mehta, P. M., J. M. Patel, M. L. Patel, and A. M. Bafna. 1979. Forms of phosphorus in the profiles of deep Black soils of heavy rainfall area of Gujarat. In Phosphorus in soils, crops and fertilizers. p. 249-258. Indian Soc. Soil Sci. Bull. No. 12. 611 p. S590.I58.
Study of 9 profiles.

Menon, N. S. 1937. Cultivation of paddy in "kole" lands of Cochin. Poona Agric. Coll. Mag. 28: 148-150. 22 P79.
In Kerala state.

Menon, P. K. R., and A. Mariakulandai. 1957. The soils of Madras: 1, Distribution in various districts: 2, The Black soils of Madras: 3, The Red soils of Madras. Madras Agric. J. 44(4): 121-120, 44(5): 175-184, 44(8): 313-325. 22 M262.
Contains a page-size soil map of Madras state (now Tamil Nadu), scale 1:6,500,000.

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Study of samples from 42 soil pits distributed over Bellary District, Karnataka, and Anantapur, Tamil Nadu. No maps.

Mirajkar, M. A., D. S. Murigappa Sresty, and K. S. Shamacharya. 1979. Soils of Karnataka and their fertility status. (Karnataka) Dep. Agric. 34 p. S599.6.I42K3.
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Field experiment on lateritic sandy loam at Dryland Agric. Res. Stn., Bhubaneswar, Orissa.

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In Madhya Pradesh.

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In Karnataka.

Mithyantha, M. S. and N. G. Perur. 1975. Retention of phorate (O, O-diethyl (s-ethylthio) methyl phosphorodithioate) in four soils of Karnataka. Indian J. Agric. Chem. 8(1&2): 157-162. S583.I5.
Samples of Red, Laterite, Black and karl soils used.

Mithyantha, M. S., and N. G. Perur. 1975. Persistence of phorate (O, o-diethyl s-(ethylthio) methyl phosphorodithioate) in four soils of Karnataka state. Indian J. Agric. Chem. 8(1&2): 143-148. S583.I5.
Samples of Red, Laterite, Black and karl soil used.

Mitra, Manju. 1980. Agricultural geography of the Chhattisgarh basin. 207 p. Sahitya Ratnalaya, Kanpur, Uttar Pradesh. S471.I4M53.
In eastern Madhya Pradesh. Soils discussed p. 24-30. Contains a ½-page soil map, scale 1:3,000,000.

Mohan, N. G. Raghu, and A. E. Vasudeva Rao. 1980. Morphology, genesis and classification of ferruginous soils: 1, Geology, geomorphology and soils of Goa. Mysore J. Agric. Sci. 14(3): 305-318. S19.M9.
Contains 5 page-size maps of Goa giving information on climate, land use, drainage, geology and geomorphology.

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Now Karnataka.

Mohan, Shri. 1964. Irrigation in Black Cotton soils of Bellary. J. Soil Water Conserv. India 13(1&2): 22-29. 56.8 J824.
In Tamil Nadu.

Mohanty, S. K., S. Patnaik, and L. D. Whittig. 1974. Characteristics of some rice growing soils of India. J. Indian Soc. Soil Sci. 22(4): 357-364. 56.9 In2.
Research on soil samples from 20 locations, most of them in Orissa.

Mohapatra, A. R., and M. M. Kibe. 1972. Studies on the distribution and availability of micronutrients in Maharashtra soils: 1, Manganese. J. Indian Soc. Soil Sci. 20(1): 67-77. 56.9 In2.
Research on surface soil samples from the 6 major agro-climatic zone of the state.

Mohapatra, A. R., and M. M. Kibe. 1973. Effect of rainfall on physico-chemical properties of basaltic soils of Maharashtra state (India). Madras Agric. J. 60(3): 164-169. 22 M262.
Study of 22 samples representing 5 agro-climatic zones.

Mohapatra, A. R., and M. M. Kibe. 1974. Studies on the distribution and availability of micronutrients in Maharashtra soils: 2, Zinc. Madras Agric. J. 61(1&2): 1-7. 22 M262.
Research on 29 soil samples representing the 6 major agroclimatic zones of the state.

Mohite, A. V., and A. K. Shingte. 1981. Evaluation of high-salt-water dilution schedule for reclamation of saline-sodic and sodic soils. J. Indian Soc. Soil Sci. 29(1): 5-60. 56.9 In2.
Laboratory research on samples of (Black?) saline-sodic and sodic soils from Tujarpur village, Sangli District, Maharashtra.

Mojumdar, K. K. 1968. The Rann of Kutch: Sand or sea? Geogr. Observer (Meerut, India) 4: 57-62.

Money, N. S. 1964. Nutrient status of a peaty soil and a Red Loam Lateritic soil and the availability of nutrients from added fertilizers. In Proceedings of the symposium on fertility of Indian soils. p. 48-58. Natl. Inst. Sci. India Bull. 26. 378 p. 56.09 Sy62.
Research on 2 soils in Kerala.

Money, N. S., et al. 1961. Studies on the soils of Kuttanad: Parts 1-3. Agric. Res. J. Kerala 1(1): 53-69.
In Kerala.

Morachan, Y. B. 1960. Soil erosion and its control in the plantations with special reference to Nilgiris. Madras Agric. J. 47(5): 215-218. 22 M262.
In Tamil Nadu.

Morachan, Y. B., and P. Rethinam. 1972. Waterlogging in Tamil Nadu and measures suggested for improvement. In (India) Central Board of Irrigation and Power (New Delhi). Symposium on waterlogging--Causes and measures for its prevention. p. 72-78. Publ. 118. Vol. 2, 170 p. 55.9 In222.
Contains a ½-page map showing location of areas susceptible to waterlogging and salinity.

Morachan, Y. B., A. Rajagopal, and N. Sankaran. 1981. Effect of salinity on the south Indian field crops yield in regi (Eleusine coracana Gaertn). Madras Agric. J. 58(8): 695-698. 22 M262.
A Red Loam soil of Tamil Nadu used in the research.

More, S. D., C. V. Mali, and N. N. Badhe. 1976. Status of zinc and molybdenum in soils from Parbhani district of Maharashtra. J. Maharashtra Agric. Univ. 1: 203-206. S471.I3J6.
Study of 47 samples of surface soils.

More, S. D., K. G. Kachhave, and S. B. Varade. 1978. Phosphorus fixing capacity as influenced by soil characteristics of Vertisols. J. Indian Soc. Soil Sci. 26(4): 403-404. 56.9 In2.
Research on 5 districts of Marathwada, Maharashtra.

Mosi, A. Dhanapalan, A. Venkataraman, M. Periasamy, and K. Natarajan. 1973. A preliminary study on the response to nitrogen, phosphorus and potassium of some high yielding varieties of rice in Thanjavur District. Madras Agric. J. 60(5): 302-307. 22 M262.
Experiments on Kalathur soil series at State Seed Farm, Maruthanallur, Thanjavur District, Tamil Nadu.

Mosi, A. Dhanapalan, P. Kandaswamy, and G. V. Kothandaraman. 1965. Studies on a catena in Coimbatore district: 1, Profile descriptions: 2, Physical properties: 3, Quantative evaluation of changes during profile development by index mineral method. Madras Agric. J. 52(6): 253-262, 52(9): 277-285, 52(12): 506-511. 22 M262.
Near Chettipalayam, Coimbatore District, Tamil Nadu, in an area of Red soils.

Mosi, A. Dhanapalan, S. K. Soundarajan, and S. Lakshiminarayanan. 1975. Summary of soil test values of major soil series of Thanjavur district. J. Indian Soc. Soil Sci. 23(3): 371-379. 56.9 In2.
In Tamil Nadu. Tested 500 samples of 2 Lateritic soil series and 4 Alluvial soil series.

Mosi, A. Dhanapalan, S. K. Soundarajan, and T. Lakshminarayanan. 1975. Studies on the phosphorus fixing capacity of major soil series of Thanjavur district. J. Indian Soc. Soil Sci. 23(2): 195-201. 56.9 In2.
In Tamil Nadu. Research on 7 soil series.

Motiramani, D. P., K. K. Vyas, and N. K. Sharma. 1964. Availability of phosphatic fertilizers in some soils of Madhya Pradesh. J. Indian Soc. Soil Sci. 12(3): 155-163. 56.9 In2.
Research on samples of 4 soils.

Murali, V. 1974. Mineralogy of two Red soil (Alfisol) profiles of Mysore state, India. Geoderma (Amsterdam) 11(2): 147-155. S590.G4.
Study of 2 soil profiles near Bangalore, Karnataka.

Murali, V., G. S. R. Krishna Murti, and V. A. K. Sarma. 1978. Clay mineral distribution in two toposequences of tropical soils of India. Geoderma (Amsterdam) 20(3/4): 257-269. S590.G4.
In Dharmapuri District, Tamil Nadu.

Murthy, B. K. Srinivasa, and R. F. Patil. 1970. Studies on the effect of different tillage practices on the rates of infiltration of water into Red soils. Mysore J. Agric. Sci. 4(3): 265-270. S19.M9.
Field experiment near Dharwar, Karnataka.

Murthy, H. K. S., and B. V. Mehta. 1970. Evaluation of methods for determining available zinc in Gujarat soils. J. Indian Soc. Soil Sci. 19(2): 157-161. 56.9 In2.
Contains data on 23 soils.

Murthy, R. S. 1978. Land-use planning in Karnataka, India. In Swindale, L. D. (ed). Soil-resource data for agricultural development. p. 104-116. Univ. Hawaii, Coll. Trop. Agric., Hawaii Agric. Exp. Stn. 306 p. S590.2.S63.
Contains a page-size "Generalized Soil Map of Bangalore District", scale 1:900,000, and another page-size map "Suggested Land Use Plan for Bangalore District".

Murthy, R. S. 1981. Review of research work done on pedology and soil survey and future lines of work suggested for different zones: Southern zone. In Kanwar, J. S., et al (ed). A review: Soil and water research in India in retrospect and prospect. p. 341-347. Indian Counc. Agric. Res. Tech. Bull. (Agric.) No. 22. 391 p. S279.B225.

Murthy, R. S., and L. R. Hirekerur. 1972. Productivity potential of Lateritic soils of Bangalore Dist., Mysore. In Symposium on soil productivity held as Varanasi and Calcutta, 1972. p. 470-472. (India) Natl. Acad. Sci. (Allahabad). 479 p. S590.S94.
In Karnataka.

Murthy, R. S., and R. J. Landey. 1967. Field and laboratory characteristics of some saline and alkali soils in the Tungabhadra watershed, Hadagalli taluk, Bellary district, Mysore state. Indian J. Agron. 12(4): 335-340. 22 In235.
The state name now is Karnataka.

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Murthy, R. S., S. P. Jain, and S. R. N. Bhushana. 1968. Soil survey and land capability classification for sound watershed management in Kundah project (Madras). J. Indian Soc. Soil Sci. 16(3): 223-227. 26.9 In2.

Murty, A. Suryanaranaya. 1956. Sprinkler irrigation in the sandy soils of Guntur district. Andhra Agric. J. (Bapatla) 3(6): 300-306. 34.2 An4.

Murty, G. Nagarana, M. A. Rahiman, and R. L. Narasimham. 1976. Some aspects of potassium availability in Red and Black soils. In Potassium in soils, crops and fertilizers. p. 46-51. Indian Soc. Soil Sci. Bull. No. 10. 345 p. S590.I58.
Study of 6 Black and 6 Red soils from Gunthur District, Andhra Pradesh.

Mustafa, S. P., and D. J. Durairaj. 1967. Progressive changes in soil available phosphorus and relationship with yield and uptake in Co. 7 ragi. Madras Agric. J. 54(6): 270-278. 22 M262.
Pot experiment on samples of Red and Black soils from Coimbatore and Laterite soil from Nanhanad, Tamil Nadu.

Mustafa, S. P., and D. J. Durairaj. 1968. Effect of phosphate carriers and doses on yield of Co. 7 ragi in major soil groups of south India. Madras Agric. J., 55(6): 273-277. 22 M262.
Samples of Red and Black soil groups from Coimbatore and the Laterite group from Nanjanad, Tamil Nadu, used in the research.

Mustafa, S. P., and R. Natarajan. 1966. Comparative nitrification of urea formaldehyde in major soils of south India. Madras Agric. J. 53(7): 283-288. 22 M262.
Research on samples of Red, Black, Laterite and Alluvial soil groups.

Muthuswamy, P., J. Helkiah, S. Ramakrishnan, and S. Venkatachalam. 1973. Study on the reclamation of alkali soils by gypsum. Madras Agric. J. 60(8): 890-893. 22 M262.
Research on samples of a Red, a Black, and an Alluvial soil in Tamil Nadu.

Muthuvel, P., P. Kandaswamy, and K. K. Krishnamoorthy. 1979. Soil pH, electrical conductivity and CEC under long term fertilization. 1979. Madras Agric. J. 66(5): 296-299. 22 M262
Research on soil samples from the Agric. Univ. Farm, Coimbatore, Tamil Nadu.

Nadagouda, V. B., and S. V. Patil. 1967. Studies on nitrification of ammoniacal fertilizers in four different soils. Mysore J. Agric. Sci. 1(4): 239-246. S19.m9.
Study of samples of Black clay loam, Red sandy loam and paddy soil (Alluvial) of the Agric. Coll. Farm, Dharwar, and a karl (sodic) soil from Nargund.

Nadagouda, V. B., T. Sadashivaish, Shakuntala Raju, K. M. Onkaraiah, and K. R. Kulkarni. 1978. Response of groundnut to nitrogen, phosphorus and potash levels in Bijapur district. Mysore J. Agric. Sci. 12(2): 201-205. S19.M9.
Some soil information included for the 3 zones into which the District was divided. It is in Karnataka.

Nadanam, M., and Y. B. Morachan. 1974. Effect of soil moisture on the yield and yield components of maize. Madras Agric. J. 61(8): 371-375. 22 M262.
Field experiment on a well drained sandy loam, Agric. Coll. Farm, Coimbatore, Tamil Nadu.

Nagarajan, D. K. 1972. Drainage problem in the Cauvery delta of Tamil Nadu. In (India) Central Board of Irrigation and Power (New Delhi). Symposium on waterlogging--Causes and measures for its prevention. p. 63-71. Publ. No. 118. Vol. 2, 170 p. 55.9 In222.
Contains a ½-page map showing drainage schemes of the Cauvery Delta.

Nagelschmidt, G., A. D. Desai, and A. Muir. 1940. The minerals in the clay fractions of a Black Cotton soil and a Red Earth from Hyderabad, Deccan state. J. Agric. Sci. (London) 30: 639-653. 10 J822.
In Andhra Pradesh.

Naidu, C. Venkata, and D. V. Krishna Rao. 1958. Note on the investigation of the soils of the fruit research station, Anantarajupet, Kodur, with reference to citrus decay or dry root rot. Andhra Agric. J. 5(1): 54-60.
In Andhra Pradesh.

Malewar, G. U. 1976. Placement of Black soil of Marathwada in the comprehensive system of soil classification. J. Maharashtra Agric. Univ. 1: 195-199. S471.I3J6.
Three profiles classed as Vertisols; 1, as Inceptisol. In Maharashtra.

Naidu, M. Chinnaswamy. 1949. Agricultural problems of the Tungabhadra irrigation project, Madras presidency. Indian J. Agric. Sci. 19(2): 263-275. 22 Ag831.
Trials in Siruguppa, Karnataka.

Nair, A. M., and Thomas Mathai. 1981. Geochemical trends in some Laterite profiles of north Kerala. In Geological Survey of India (ed). Lateritisation processes: Proceedings of the international seminar on lateritisation processes (Trivandrum, India, Dec. 1979). p. 114-119. Oxford & IBH, New Delhi. 450 p.

Nair, J. Janardhanan, K. P. Rajaram, E. P. Nambiar, and N. S. Mony. 1973. Discriminant function of gravels of Laterite soil. J. Indian Soc. Soil Sci. 21(3): 329-334. 56,9 In2.
Research on 14 samples of gravel from 14 locations in the region of typical Laterite soils, mainly in Kerala.

Nair, K. Chandrasekharan, and M. M. Koshy. 1970. Effect of elevation and rainfall on the physico-chemical properties of soils of the high ranges of Kerala. Agric. Res. J. Kerala. 8(1): 29-38. 22 Ag823.

Nair, K. S., P. P. Ramaswami, and Rani Perumal. 1971. Studies on the causes of poor nodulation in groundnut in soils of Tamil Nadu. Madras Agric. J. 58(1): 5-8. 22 M262.
Study of 48 soil samples from 6 peanut-growing areas.

Nair, M. S. 1957. Soil conservation in Travancore-Cochin state. J. Soil Water Conserv. India 5(3): 137-139. 56.8 J824.
In Kerala.

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Contains in pocket "Soil Map of the Chantaburi Study Area, Appendix F", 2 sheets, scale 1:100,000. Also issued by U. S. Army Eng. Waterways Exp. Stn. (Vicksburg, MS) as Contract Rep. No. 3-156, "Soil Series Survey of Selected Study Areas in Thailand: Appendix F, Soil Survey of the Chantiburi Area", with soil map, 4 sheets, in pocket, scale 1:50,000.

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Contains in pocket "Soil Map of MERS Lopburi Area" scale 1:100,000. Also issued by U. S. Army Eng. Exp. Stn. (Vicksburg, MS) as Contract Rep. 156. "Soil Series Survey of Selected Study Areas in Thailand: Appendix B, Soil Survey of the Lop Buri Area" with soil map, 3 sheets, in pocket, scale 1:50,000.

Dent, F. J., and Manu Omkupt. 1966. Mobility environmental research study (MERS) in Thailand: Soil series survey of the MERS Chiang Mai study area. (Thailand) Minist. Natl. Dev., Land Dev. Dep. Soil Surv. Rep. 50. 33 p.
Contains in pocket a "Soil Map of the Chiang Mai Study Area, Appendix C", scale 1:100,000. Also issued by U. S. Army Eng. Waterways Exp. Stn. (Vicksburg, MS) as Contract Rep. No. 3-156, "Soil Series Survey of Selected Areas in Thailand: Appendix C, Soil Survey of Chiang Mai Area" with soil map, 3 sheets, in pocket, scale 1:50,000.

Dijkstra, S., H. J. van den Hul, R. Kuhnel, and E. N. Shei. 1975. Geochemical investigation of some Latosols. ITC (Int. Inst. Aerial Surv. Earth Sci.) Journal (Enschede, The Netherlands). (1975) No. 4. p. 521-534. TA593.I5.
Investigation of 5 soils in Thailand.

Doe, F., and Vichit Thunduan. 1968. Detailed soil survey of the north-eastern portion of ASRCT Sakaerat experiment station (Amphoe Pak Thong Chai, Changwat Nakhon Ratchasima). (Thailand) Minist. Natl. Dev., Land Dev. Dep. Soil Surv. Rep. 73. 23 p.
Contains in pocket a soil map, a topographic map, and a map showing "Soil Morphmetric Units", all at scale 1:20,000.

Dudal, R. 1960. Les sols du bassin du Mekong inferieur et leur utilisation (The soils of the lower Mekong basin and their utilization). Pedol. (Ghent) 10: 24-47. 56.8 P34.
Contains a page-size soil association map, scale about 1:9,000,000.

Eelaart, A. L. J. van den. 1973. Climate and crops of Thailand. (Thailand) Minist. Agric. and Coop., Dep. Land Dev., Soil Survey Div., (and FAO), Soil Surv. Rep. 96. 27 p. 56.9 Sil.
Contains in pocket an "Agroclimatological Map", of Thailand, scale 1:5,000,000.

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Contains maps.

Eyles, G. O., et al. 1973. Fertilizer studies on forage legumes in northeast Thailand. Thai J. Agric. Sci. 6(1): 35-43.

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Food and Agriculture Organization of the United Nations. 1948. Report of the FAO mission for Siam. FAO (Washington). 125 p.
Contains a page-size map of land use in Thailand and a page-size map of depth of flooding in Bangkok plain.

(France) Societe Grenobloise d'Etudes et d'Applications Hydrauliques (SOGREAH). 1960. Etude agro-pedologique de la plaine de Vientiene (Laos) et du bassin superior de la Nam-Chee (Thailand). 34 p.
Contains maps, including a soil map of the upper Nam Chee basin, scale 1:250,000.

Fukube, Tomoo, Hisao Furukawa, and Keizaburo Kawaguchi. 1967. A few considerations on clay minerals of paddy soils in Thailand. In Translations from Southeast Asia Studies (Kyoto Univ., Japan) Vol. 3, No. 3, 1965. Joint Publ. Res. Serv. (JPRS, Washington). GUO 2429. p. 164-178. Total p. 243.
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Hattori, Tomoo. 1970. Some properties of soils and substrata in Lampang basin. Southeast Asian Stud. (Kyoto Univ., Japan) 7(4): 527-545. 280.9 K99.
In English.

Hattori, Tomoo, Tadayao Watabe, Pongpit Piyapongse, and Keizaburo Kawaguchi. 1968. Soil characteristics and paddy yield, northern Thailand. Southeast Asian Stud. (Kyoto Univ., Japan) 6(2): 355-350. 280.9 K99.
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Holdridge, Leslie R., W. C. Grenke, W. H. Hathaway, T. Liang, and J. A. Tosi. 1971. Forest environment in tropical life zones: A pilot study. 747 p. Pergamon Press, New York. QK938.F6F6.
Contains, in pocket, an ecological map of Costa Rica, scale 1:750,000, based on Holdridge's classification of life zones, and a map (2 sheets) of life zones in "MERS" areas in Thailand plus a map of ecological and land use characteristics west of Chiang Mai, Thailand, scale 1:15,000-1:25,000.

Jackson, E. 1964. Soil and crop research in northeast Thailand. Applied Sci. Res. Corp. Thailand (Bangkok). 78 p.

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Contains maps.

Keen, F. G. B. 1966. Comparative study on the geomorphology and flooding in the plains of the Cho Shui-Chi, Chao-Phya, Irrawaddy and Ganges. In Scientific problems of the humid tropical zone deltas and their implications: Proceedings of the Dacca symposium. p. 23-28. UNESCO (Paris) Humid Trop. Res. 422 p. GB1205.S3.

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Contains in pocket "Semi-detailed Soil Map, Land Suitability Map for Irrigated Rice, Land Suitability Map for Irrigated Dryland Crops", and "Land Use Planning Map", all at scale 1:50,000.

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Contains in pocket "Semi-detailed Soil Map, Land Suitability Map for Irrigated Rice, Land Suitability Map for Irrigated Dryland Crops", and "Land Use Planning Map", all at scale 1:50,000.

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Contains in pocket a map showing landforms, scale 1:500,000. "Detailed Reconnaissance Soil Map of Pathum Thani, Nonthaburi, Bangkok-Thon Buri, Samut Prakan provinces" scale 1:100,000, issued as Province Ser. No. 8, a folio of 11 sheets.

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Contains in accompanying portfolio "Semi-detailed Soil Map of a Part of the Central Plain (Sam Chuk,...)" and "Map Showing Suitability for Irrigated Paddy of...", both at scale 1:50,000, 3 sheets for each subject.

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Kevie, W. van der, Apon Prompasit, and Maitri Singhavara. 1965. Report on the soil survey in the Manorom tract (in) Chao Phya irrigation project II. (Thailand) Minist. Natl. Dev., Land Dev. Dep. Soil Surv. Rep. 37. 16 p.
Contains fold-in "Soil-Land Classification Map" and "Land Use Planning Map", both at scale 1:50,000.

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Contains in pocket "Detailed Soil Map of the Channasut Land Consolidation Project, Land Suitability Map for Irrigated Rice of..., Land Suitability Map for Irrigated Dryland Crops", and "Land Use Planning Map of ...", all at scale 1:10,000.

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Contains in accompanying portfolio a "Semi-detailed Soil Map, Land Classes for Irrigated Rice, Land Classes for Irrigated Dryland Crops", and "Land Use Planning Map", all at scale 1:50,000.

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Contains in accompanying portfolio "Semi-detailed Soil Map, Land Suitability Map for Irrigated Rice, Land Suitability Map for Irrigated Dryland Crops", and "Land Use Planning Map", all at scale 1:50,000.

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Krisnamara, J. 1966. Soil resources and land use in Thailand. Vanasarn (Bangkok) 26(1): 15-22.
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Makes reference to vegetation mapping at scale 1:30,000, but no maps included.

Lamoreaux, P. E., et al. 1958. Reconnaissance of the geology and ground water on the Khorat plateau, Thailand. U. S. Geol. Surv. Water Supply Pap. 1429. 62 p. 407 G29W.
Contains fold-in map of physiographic provinces of Thailand, scale 1:4,000,000; a map showing location of wells on the Khorat Plateau, 1:2,000,000; and a "Reconnaissance Geologic Map of the Khorat Plateau", 1:2,000,000. A cooperative study by U. S. Oper. Mission (Thailand) and the government of Thailand.

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Contains fold-in "Landuse Map of the Area of Ang Kep Nam Nong Ya Ma", scale 1:20,000; "Semi-detailed Soil Map of the Area of Ang Kep Nong Ya Ma", 1:20,000; "Detailed Soil Map of the Irrigable Area, Nong Ya Ma Tank", 1:10,000; "Land Classification Map for Irrigated Rice of ...", 1:20,000; and "Land Classification Map for Upland Crops of ...", 1:20,000.

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Research includes samples of 3 soils in Thailand.

Moncharoen, Lek, and Manu Omakupt. 1966. Mobility environmental research study (MERS) in Thailand: Soil series survey of selected areas in Thailand: Appendix A, Soil survey of the Nakhon Sawan area. (Thailand) Minist. Natl. Dev., Land Dev. Dep. Soil Surv. Rep. 52. 29 p.
Contains in pocket Soil Map of the Nakhon Sawan Study Area, Appendix A", scale 1:100,000. Also issued by U. S. Army Eng. Waterways Exp. Stn. (Vicksburg, MS) as Contract Rep. No. 3-156, "Soil Series Survey of Selected Study Areas in Thailand: Appendix A, Soil Survey of the Nakhon Sawan Area" with soil map, 3 sheets, in pocket, scale 1:50,000.

Monchareon, L., and P. Vijarnsorn. 1979. Low activity clay Ultisols and Alfisols in Thailand. In Beinroth, F. H., and S. Panichapong (ed). Proceedings of the second (1978) international soil classification workshop: Part 2, Thailand. p. 91-106. (Thailand) Land Dev. Dep., Soil Surv. Div. (Bangkok). 432 p.
Contains a page-size map of physiographic regions of Thailand and a fold-in "Map Showing the Distribution of Ultisols, Alfisols and Oxisols in Thailand", scale 1:2,500,000.

Moncharoen, Lek, Mana Cheutongdee, and David A. Libby. 1966. Mobility environmental research study (MERS) in Thailand: Soil series survey of the Khon Kaen area. (Thailand) Minist. Natl. Dev., Land Dev. Dep. Soil Surv. Rep. 51. 29 p.
Contains in pocket "Soil Map of the MERS Khon Kaen Study Area, Appendix E", scale 1:100,000. Also issued by U. S. Army Eng. Waterways Exp. Stn. (Vicksburg, MS) as Contract Rep. 3-156, "Soil Series Survey of Selected Study Areas in Thailand: Appendix E, Soil Survey of the Khon Kaen Area", with soil map, 3 sheets, in pocket, scale 1:50,000.

Moncharoen, Lek, Suraphon Charoenphong, and F. R. Moormann. 1964. Report on the soil survey in the Sam Roi Yot area (Prachuab Khili Khan province). (Thailand) Minist. Natl. Dev., Land Dev. Dep. Soil Surv. Rep. 29. 24 p.
Contains fold-in in "Detailed Soil Map of the Sam Roi Yot Area, ...", scale 1:50,000.

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Contains in pocket "Soil Map of the Pran Buri Study Area, Appendix D", scale 1:50,000. Also issued by U. S. Army Eng. Waterways Exp. Stn. (Vicksburg, MS) as Contract Rep. No. 3-156, "Soil Series Survey of Selected Study Areas in Thailand: Appendix D, Soil Survey of the Pran Buri Area", with soil map, scale 1:50,000, in pocket.

Montrakun, Sarot. 1961. Compilation of the analysis of the soils of Thailand. (Thailand) Minist. Agric., Dep. Rice. 622 p.

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Contains fold-in soil maps of Wang Takien Tract, Pak Tong Chai Tract, and Choke Chai Tract, all at scale 1:50,000.

Montrakun, Sarot. 1961. Soil survey of the Lam Pao area, Kalasin province. (Thailand) Dep. Rice, Dep. Agric., Royal Irrig. Dep., and U. S. Oper. Mission (Thailand), Soil Surv. Rep. No. 2. 35 p.
Contains a fold-in soil map, scale 1:250,000.

Montrakun, Sarot. 1961. Soil Survey of the Mae Taeng area, Chiengmai province. (Thailand) Dep. Rice, Royal Irrig. Dep., and U. S. Oper. Mission (Thailand), Soil Survey Rep. No. 3. 21 p.
Contains a fold-in "Soil Map of the Mae Taeng Project, Chiengmai Province", scale 1:250,000.

Montrakun, Sarot. 1962. Report on the preliminary soil survey of the Lam Nam Oon irrigation area. (Thailand) Minist. Agric. Misc. Soil Rep. 4. ? p.
Contains a soil map, scale 1:50,000.

Montrakun, Sarot. 1962. Report on the preliminary soil survey of the Lam Takong irrigation area. (Thailand) Minist. Agric. Misc. Soil Rep. 2. ? p.
Contains soil maps, scale 1:50,000.

Montrakun, Sarot. 1962. Report on the preliminary soil survey of the Tung Samrit irrigation area. (Thailand) Minist. Agric. Misc. Soil Rep. 3. ? p.
Contains maps on soils and land use, scale 1:50,000.

Montrakun, Sarot. 1964. Agriculture and soils of Thailand;: Compilation of soil reports and laboratory analysis of the soils of Thailand. (Thailand) Minist. Agric., Dep. Rice, Tech. Div. 903 p. S599.T5M6.
Contains a fold-in "Provisional Soils Map... of Thailand", scale 1:4,000,000, by R. L. Pendleton and S. Montrakun, 1960.

Moormann, F. R. 1962. Report on the preliminary soil survey of the Mai Klong irrigation project area. (Thailand) Minist. Agric., Royal Irrig. Dep., Dep. Agric., and Dep. Rice Misc. Soil Rep. 1. 27 p.
Contains fold-in "Map Showing Landforms and Soil Associations", scale 1:250,000.

Moormann, F. R., and R. Dudal. 1965. Characteristics of soils on which paddy is grown in relation to their capability classification. (Thailand) Minist. Natl. Dev., Land Dev. Dep. Soil Surv. Rep. 32. 22 p.

Moormann, F. R., and S. Rojanasoonthan. 1968. Soils of Thailand: A reconnaissance survey with map showing the general soil conditions. (Thailand) Minist. Natl. Dev., Land Dev. Dep. Soil Surv. Rep. 72. 43 p.
Contains in pocket a map "General Soil Conditions of Thailand", in color, scale 1:2,500,000.

Moormann, F. R., and S. Rojanasoonthan. 1972. The soils of the Kingdom of Thailand: Explanatory text to the general soil map of Thailand. (Thailand) Minist. Agric. and Coop., Dep. Land Dev., Soil Surv. Div. Soil Surv. Rep. 72A. 62 p. 56.9 Sil.
Contains in pocket "Kingdom of Thailand General Soil Map", scale 1:1,250,000, printed in 1968.

Moormann, F. R., et al. 1964. Soils of north-eastern Thailand: A key to their identification and survey. (Thailand) Minist. Natl. Dev., Land Dev. Dep. ? p.

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(United States Army, Corps of Engineers) Engineer Agency for Resources Inventories (Washington). 1970. Vietnam subject index: Catalog of research files of the Engineer Agency for Resources Inventories. 288 p.
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(United States Army, Corps of Engineers) Engineer Agency for Resources Inventories (Washington). 1970. Vietnam: Subject index Maps. 181 p. G8010.U5.
182 maps, most of them page-size, of South Vietnam, scale 1:3,250,000. Includes maps of soils-agricultural, soils-engineering, soil moisture regimes, geology, climate, and land use. Compiling editors were Robert E. Genslar and Larry B. Staley. Copy at Natl. Agric. Libr., Beltsville, MD 20705.

(United States Army, Corps of Engineers) Engineer Agency for Resources Inventories (Washington), and Tennessee Valley Authority. 1968. Atlas of physical, economic and social resources of the lower Mekong basin. 257 p.
Contains 42 maps, scale 1:4,250,000, including maps of soils-agriculture, soils-engineering, land use, land potential, surface configuration, and climatic zones. Maps accompanied by tabular information. Atlas also issued with maps at scale 1:2,000,000.

(United States Army, Corps of Engineers) Engineer Agency for Resources Inventories (Washington), and Vietnam Research and Information Center, (United States) Agency for International Development (Washington). 1970. Vietnam agriculture, a selected bibliography. 58 p. Z5075.V5U64.
Copy at Natl. Agric. Libr., Beltsville, MD 20705.

United State Army, Corps of Engineers, 579th Engineer Detachment (Terrain). 1967. Geology/soil survey of the Mekong Terrace. 40 p.
Contains maps, scale 1:250,000, sheets An Loc and Qui Nhon.

United States Army, Corps of Engineers, 579th Engineer Detachment (Terrain). 1967. Military engineering: General soils map of South Viet Nam (scale 1:1,000,000).
A 34-page glossary also was issued for use with this map, which was based on the soil map by Moormann, 1961.

United States Army, Corps of Engineers, 579th Engineer Detachment (Terrain). 1967. Geology/soils/vegetation survey of N. W. Quang Tri province. 32 p. QK361.U59.
Contains maps, scale 1:250,000(?).

United States Army, Corps of Engineers, 579th Engineer Detachment (Terrain). 1969. Basalt stabilization in South Vietnam. 62 p.
About soils over basalt. Contains a page-size map showing location of such soils.

(United States) Central Intelligence Agency (Washington). 1970. Indochina atlas. Folio of 14 map sheets.
No soil map, but includes maps of agriculture, vegetation, surface configuration, hypsometry, and precipitation and monsoon flow, scale 1:3,500,000.

(United States) Department of Interior, Bureau of Reclamation. 1957. Water resources investigations of the Mekong River. 2 vol.

(Vietnam) National Geographical Service (Dalat). 1962-1963. Geological map of Vietnam, Cambodia, Laos (scale 1:500,000). 22 sheets.
Explanatory texts have been issued for some sheets by Serv. Geol. Indochine. An earlier set of 21 sheets at 1:500,000 was issued by the Service Geographique de l'Indochine (Hanoi), 1927-?.

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Westing, Arthur H. 1971. Ecological effects of military defoliation on the forests of South Vietnam. Bioscience (Am. Inst. Biol. Sci.) 21(17): 893-898. 500 Am322A.

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ABBREVIATIONS

Abbreviations, except those few followed by an asterisk (*), are in accordance with the WORD-ABBREVIATION LIST, 1971 edition, and supplements, of the National Clearinghouse for Periodical Title Word Abbreviations. This Clearinghouse was established in 1966 by Standards Committee Z39 of the American National Standards Institute. The word-abbreviation list also conforms to the UNISIST/ICUS-AB International List and hence accommodates many non-English as well as English words.

Many word roots end with a hyphen (-), which means that the root stands for various words with different endings but having the same root. For example, the word-root, "Academi-" (for which the abbreviation is "Acad.") may stand for academie, academiae, academic, academician, academico, academiei, academies, or even additional words that have the root "academi-".

An asterisk (*) after an abbreviation, for example "CCTA*", means that the abbreviation has been inserted for use in this bibliography and was not extracted from the Word-Abbreviation List of the National Clearinghouse.

ABBREVIATION	WORD ROOT
Abstr.	Abstract-
Abt.	Abteilung
Acad.	Academi- Academy
Accad.	Accadem-
Addit.	Additamentum Addition- Additivi-
Adm.	Administr-
Adv.	Advanc-
Advis.	Adviser- Adviseur- Advisor-
Afd.	Afdeeling Afdeling
Aff.	Affair-
Afr.	Africa- Afrika- Afrique
Agrar.	Agrari-
Agric.	Agricol- Agricult-
Agrobiol.	Agrobiolog-
Agrobot.	Agrobotan-
Agrochem.	Agrochemi-
Agrochim.	Agrochimi-
Agrogeol.	Agrogeolog-
Agrol.	Agrolog-
Agron.	Agronom-
Agropecu.	Agropecuari-
Agrotec.	Agrotecni-
Agrotech.	Agrotechni-
Agroteh.	Agrotehni-
Akad.	Akadeem- Akadem-
Allg.	Allgemein-
Am.	America-
An.	Anais Anale Analele Anales Anani Anals
Anal.	Analis- Analit- Analiz- Analys- Analyt- Analyz-
Anim.	Animal Animat- Animaux-
Ann.	Annaes Annal-
Annot.	Annotat-
Annu.	Annu-
Anot.	Anotaciones Anotationes
Anthropol.	Anthropolog-
Antiq.	Antique- Antiquit-

ABBREVIATIONS	WORD/ROOT
Anu.	Anual- Anuar-
Apl.	Aplica- Aplika-
Append.	Appendices Appendi- Appendix
Appl.	Applica- Applied Applique-
Aprovision.	Aprovisionamient-
Arb.	Arbied- Arbiet
Arch.	Archiv-
Artic.	Article
Asiat.	Asiati-
Asist.	Asistenc-
Asoc.	Asocia-
Asses.	Assessment
Assist.	Assistance Assistant
Assoc.	Associ-
Atl.	Atlantic-
Atmos.	Atmosfaer- Atmosfar- Atmosfer- Atmosphaer- Atmospher-
Aufn.	Aufnahme-
Ausl.	Auslaendisch- Ausland
Aust.	Australi-
Aver.	Average
Beob.	Beobach-
Ber.	Bericht
Biannu.	Biannual
Bibliogr.	Bibliograph- Bibliograf-
Bibl.	Bibliotec- Bibliotek- Bibliothec- Bibliothek- Biblioteque-
Bienn.	Biennial

ABBREVIATIONS	WORD/ROOT
Bild.	Bildung
Bimon.	Bimonthly
Biochem.	Biochem-
Bioclimatol.	Bioclimatolog-
Biodyn.	Biodynamic
Bioeng.	Bioengineer-
Biogeogr.	Biogeograph-
Biogr.	Biograf- Biograph-
Biol.	Biolog- Bioloj- Bioloog- Biolosk-
Biosci.	Bioscience
Biotech.	Biotechni-
Biotechnol.	Biotechnolog-
Bodenkd.	Bodenkund-
Bol.	Boletim- Boletin-
Bot.	Botan-
Br.	Britain Britanni- British
Build.	Builder Building
Bul.	Buleten- Buletin Bulten
Bull.	Bulletin- Bulletino
Bur.	Bureau-
Bus.	Business
Cah.	Cahier-
Can.	Canada Canadi-
Cap.	Capital
Cartogr.	Cartograf- Cartograph-
Cat.	Catalog-

ABBREVIATIONS	WORD/ROOT
C.C. T. A. or CCTA*	Commission de Cooperation Technique en Afrique au sud du Sahara (Commission for Technical Cooperation in Africa South of the Sahara)
Cent.	Center- Centraal- Central Centrala Centrale Centraln- Centre Centro
Centrafr.	Centrafric-
Centroam.	Centroamerica-
CEPAL*	Comision Economica para America Latina de las Naciones Unidas (United Nations Economic Commission for Latin America)
Charact.	Characteristic Characteriz-
Chem.	Chemia- Chemic- Chemie Chemii Chemij Chemik- Chemine- Chemisch- Chemist Chemiz- Chemj-
C. I. A. F.*	Centro Interamericana de Fotointerpretacion
CIDA*	Inter-American Committee for Agricultural Development (Comite Interamericano de Desarrollo Agricola)
Cienc.	Ciencia-
Cient.	Cientific-
Circ.	Circolar- Circolazione Circolo Circulaire Circular- Circulat- Circulo
Clasif.	Clasific-
Classif.	Classifi- Classification
Clim.	Climate Climati-
Climatol.	Climatolog-
Co.	Companies Company
Colab.	Colaboracion-
Colecc.	Coleccion-
Col.	Colegio
Collab.	Collaborat- Collaborazione
Collect.	Collect-
Coll.	College- Collegi-
Colloq.	Colloque- Colloguia Colloguio Colloqium
Colon.	Coloni-
Coloq.	Coloquio-
Com.	Comisi- Comissao Comit-
Coment.	Comentario
Comer.	Comerci-
Comment.	Commentair- Commentar-
Comm.	Commissie Commission- Committee
Commonw.	Commonwealth
Commun.	Communica-
Compend.	Compendium
Compil.	Compilation
Compr.	Comprensive
C. R.	Compte Rendu Comptes Rendus
Comun.	Comunica-
Conf.	Conferenc- Conferent- Conferenz- Conferinta
Congr.	Congres-
Connais.	Connaissance

ABBREVIATION	WORD/ROOT
Cons.	Conseil Consejo Conselho Consiglio Consili-
Conserv.	Conservation- Conservacion
Consult.	Consult Consult- Consultat- Consulting
Cont.	Continent-
Contrib.	Contribuc- Contribuic- Contribut-
Conv.	Convegno Convenc- Convenio Convention Convenzione
Coop.	Coopera-
Corp.	Corporat-
Counc.	Council-
Couns.	Counsel-
C. S. I. R. O. or CSIRO	Commonwealth Scientific and Industrial Organization
Cult.	Cultur- Cultuur-
Def.	Defence Defensa Defense
Democr.	Democracy Democrati-
Dep.	Departament- Departemen- Departement- Department-
Descr.	Descripti- Descritti-
Dtsch.	Deutsch Deutsche-
Dev.	Development- Developpement-
Diffus.	Diffusion-
Dir.	Direcc- Direci- Directeur- Directi- Director- Direktion Direktor- Direkts- Diretor- Direttor- Direzion-
Dis.	Disease-
Diss.	Disserta-
Discuss.	Discussies Discussion-
Dist.	District Distrito
Div.	Divis-
Doc.	Document Documenta Documentac- Documental- Documentar- Documentatio- Documento- Documents
Dokl.	Doklad-
D. O. S. or DOS*	(Great Britain) Directorate of Overseas Surveys
Drain.	Drainage
Dyn.	Dynamic- Dynamik Dynanisch- Dynamisk-
East.	Eastern
Ec.	Ecole
ECLA*	United Nations Economic Commission for Latin America
Ecol.	Ecolog-
Econ.	Econom- Economi- Economy
Edafol.	Edafolog-
Ed.	Edic- Edit- Ediz-
Educ.	Educac- Educat- Educaz-

ABBREVIATIONS	WORD/ROOT
Ekol.	Ekolog-
Ekon.	Ekonom-
Elev.	Elevage
Emp.	Empire
Encycl.	Encyclop-
Eng.	Engenharia Engenheiro Engineer-
Ens.	Ensaio
Enseign.	Enseignment-
Environ.	Environment-
Entwickl.	Entwicklung
Erdkd.	Erdkunde
Erfahr.	Erfahrung-
Erforsch.	Erforschung-
Ergaenz.	Erganzung
Ernaehr.	Ernaehrung
Esc.	Escola- Escuela-
Espec.	Especial-
Establ.	Establ-
Estac.	Estac-
Estud.	Estud-
Ethnol.	Ethnolog-
Etud.	Etudes Etudiant-
Eval.	Evaluacion- Evaluation
Exp.	Experiment-
Exped.	Expedic- Expedition-
Explor.	Explora- Explorer
Ext.	Extension
Fac.	Facolt- Faculd- Facult-
Facil.	Facilit-
Fed.	Federa- Federe

ABBREVIATIONS	WORD/ROOT
Fert.	Fertilis- Fertiliz-
Fertil.	Fertilit-
Fisiol.	Fisiolog-
Fisiogr.	Fisiograf-
Foldt.	Foldtan-
Fom.	Fomento
Fondam.	Fondamenta-
Fond.	Fondation- Fondazione
F. A. O. or FAO	Food and Agriculture Organization of the United Nations
For.	Forest Forestal- Forestei- Forestier- Forestry
Forsch.	Forschung-
Forstztg.	Forstzeitung
Fotogr.	Fotograf.
Found.	Foundation-
Fr.	Francais- France Franco French
Fund.	Fundacao Fundacion
Ganad.	Ganader-
Gard.	Garden-
Gaz.	Gazeta Gazette Gazettes
G.B.	Great Britain
Gen.	Genel- General- Generaux
Geod.	Geodaes- Geodaet- Geodas- Geodat- Geodes- Geodet- Geodez-
Geogr.	Geograf- Geograph-

ABBREVIATION	WORD/ROOT
Geol.	Geolog- Geologa- Geologe- Geologi- Geologo Geologos Geologov Geologue- Geology Geoloshk- Geolosk- Geolozh
Geomorfol.	Geomorfolog-
Geomorphol.	Geomorpholog-
Geophys.	Geophys-
Ger.	German
Ges.	Gesellschaft
Gesch.	Geschichte
Gouv.	Gouvernment-
Gov.	Government-
Grad.	Graduate
Grow.	Grower- Growing
Handb.	Handboek Handbook Handbuch
Heb.	Hebrew
Hebd.	Hebdomadaire-
Herb.	Herbage Herbari-
Hidraul.	Hidraul-
Hidrogeol.	Hidrogeolog-
Hidrogr.	Hidrograf-
Hidrol.	Hidrolog-
Highw.	Highway-
Hisp.	Hispalis Hispan-
Hist.	Histoir- Histor-
Hochsch.	Hochschule
Hum.	Humain- Human
Hydrol.	Hydrolog-
IAIAS*	Inter-American Institute of Agricultural Sciences
IICA*	Instituto Interamericao de Ciencias Agricolas (Inter-American Institute of Agricultural Sciences)
Imp.	Imperatorsk- Imperia-
Improv.	Improvement- Improving
Inaug.	Inaugural
Ind.	Industria- Industrie- Industrii Industriia Industriiu Industrij- Industrin- Industriya Industriyu Industry
Inf.	Informac- Informare Informatik- Information Informational Informatique- Informativ- Informator- Informats- Informaz- Informe-
Ing.	Ingegner- Ingenier- Ingenieur Ingenioer Ingenior Ingener-
I. N. Q. U. A. or INQUA*	International Association for Quaternary Research
Inst.	Institout- Instituc- Institus- Institut Instituta- Institute- Institution Institutu- Institutu- Instituut-
Interafr.	Interafrica-
Interam.	Interamerican-
Int.	Internaci- Internationaal International Internationaux Internazional-
Invest.	Investiga-

ABBREVIATION	WORD/ROOT
I. R. A. T. or IRAT*	L'Institut de Recherches Agronomiques et de Cultures Vivrieres
Irrig.	Irrigac- Irrigati- Irrigats- Irrigaz- Irrigate-
Isl.	Island Islend- Islenzk-
Ist.	Istitut- Istituzione
J.	Joernaal- Jornal- Journal
Jahr.	Jahrbuck Jahrbuecher
Jard.	Jardim- Jardin-
Kartogr.	Kartograf-
Klassif.	Klassifik-
Klim.	Klimat Klimati-
Klimatol.	Klimatolog-
Lab.	Laboratoir- Laborator-
Latinoam.	Latioamerican-
Lett.	Letter-
Libr.	Librair- Librar-
Lit.	Literar- Literatur Literature Literatury Literatuur
Litt.	Littarae Litterar- Litteratur Litterature
La.	Louisiana
Mag.	Magasin Magzijn Magazin-
Mapp.	Mapping
Marit.	Maritime-
Mech.	Mechani-
Meded.	Mededeeling- Mededeling-
Mediterr.	Mediterrane-
Meet.	Meeting-
Mem.	Memento- Memoir- Memori-
Memo.	Memorand-
Meteorol.	Meteorolog.
Mich.	Michigan
Mijnbouwkd.	Mijnbouwkund-
Mil.	Militaer- Militaerisch- Militair- Militar-
Mimeogr.	Mimeograph-
Min.	Mineraria Mineria Minero Mining
Miner.	Mineraal- Mineral- Minerale- Minerali- Mineraln- Mineral'n- Minerals Mineraux
Minist.	Minister- Ministr-
Misc.	Miscelan- Miscellan-
Mitt.	Mitteilung
Mod.	Modern-
Monogr.	Monograf- Monograph-
Mt.	Mount Mountain Mountainous Mountains
Mus.	Musea Musee Musei Museo Museu Museum
Muz.	Muzei Muzeia Muzej- Muzeu Muzeum Muzeya

ABBREVIATION	WORD/ROOT
Nac.	Nacion-
N. A. S. - N. R. C. or NAS-NRC	National Academy of Sciences-National Research Council
Nat.	Natuerlich- Natur Natura Naturae Naturais Natural- Nature Naturel- Naturen Naturii Natuur Natuurlijk- Natyor
Naturwiss.	Naturwissenschaft-
Nauk.	Naukov- Naukow-
No.*	Number
Not.	Notationes Notica- Notice- Notici- Notise- Notizi- Notulae Notulen
Nouv.	Nouveau- Nouvell-
O. A. F. or OAF*	Occidentale Afrique Francaise
O. A. S. or OAS*	Organization of American States (Organizacion de los Estados Americanos)
O. A. U. or OAU*	Organization of African Unity (Organisation de l'Unite Africaine)
O-Vo.	Obshchestvo-
Ocas.	Ocasion-
Occas.	Occasion-
Occident.	Occidental-
OEA*	Organizacion de Estados Americanos (Organization of American States)
Off.	Offic- Offiz-
Of.	Ofici-
Oper.	Operac- Operat- Operazione
Organ.	Organiza- Organize- Organizing Organizz-
OAS or O. A. S.	Organization of American States
Orient.	Oriental-
Pac.	Pacific Pacifique
Palaeobot.	Palaeobotan-
Palaeontol.	Palaeontolog-
Palaontol.	Palaontolog-
Pam.	Pamflet Pamphlet
Pap.	Papeis Papel Paper- Papier Papieru Papir Papiru
Pesq.	Pesquer-
Pesqui.	Pesquisa
Pflanzenernaehr.	Pflanzenenernaehrung-
Philos.	Philosoph-
Photogr.	Photograaf- Photograf- Photograph-
Photogramm.	Photogrammetr-
Phys.	Physica- Physicist Physico Physics Physicu- Physik Physikal- Physique- Physisch-
Plann.	Planner Planning
Pochv.	Pochven-
Pochvoved.	Pochvoveden-
Pol.	Polish
Port.	Portug-
Prat.	Pratique Pratica
Prelim.	Prelimin-

ABBREVIATIONS	WORD/ROOT
Prod.	Produc- Produit- Produkt Produktion Produktiv- Produzion-
Prof.	Profesion Profession Professional
Program.	Programac-
Proj.	Project- Projekt
Prot.	Protecao Proteccion Protecti- Protectorate Protettivo Protettorato Protezoine
Prov.	Provinc- Provints- Provinz
Publ.	Publicac- Publicat-
Q.	Quarterly
Quim.	Quimic-
Racion.	Racional-
Rap.	Raporlari Raport-
Rapp.	Rapport-
R.	Real (Royal) Reale Royal
Reclam.	Reclamation
Recomm.	Recommend-
Rec.	Record-
Recur.	Recurso-
Reg.	Region-
Relaz.	Relazion-
Repubb.	Repubblica
Repub.	Republica- Republiek Republik- Republique
Res.	Research-
Resour.	Resource-
Ressour.	Ressource-

ABBREVIATIONS	WORD/ROOT
Rev.	Review- Revija Revised Revisio Revista Reviste Revistele Revue- Revuo
Riv.	Rivist-
Schr.	Schrift
Sci.	Scienc- Scient- Scienz-
Secc.	Seccao Seccion-
Secr.	Secretar-
Sel.	Selacao- Seleccion- Select- Selek- Selezione
Sem.	Semaine Semana-
Sep.	Separate Separation- Separatsi
Ser.	Seria- Serie- Seriia Serija Seriya Seryia Seryya
Serv.	Servic- Serving Serviz-
Ses.	Sesion- Sesiun- Sesji Sessi-
Sist.	Sistem-
Soc.	Social Sociale- Socialist- Socialn- Sociedad- Societ- Socijalist-
S. Afr.	South Africa
South.	Southern
Southwest.	Southwestern
Sov.	Soviet

ABBREVIATION	WORD/ROOT
Soz.	Sozial Soziale Soziali- Sozietaet
Spec.	Special- Speciaux
Stn.	Station
S. T. R. C. or STRC*	Scientific, Technical and Research Commission (Commission Scientifique et de la Recherche)
Stud.	Studenchisk- Student- Studia Studie Studien Studies Studii Studiia Studij Studio Studium Studiya
Subtrop.	Subtrop-
Sudam-	Sudamerica-
Suec.	Suecan- Suecic-
Super.	Superieur- Superior-
Supl.	Suplement- Supliment-
Suppl.	Supplement- Supplementa- Supplemento Supplements
Supt.	Superintend-
Surv.	Survey-
Taxon.	Taxonom-
Tech.	Techni-
Tec.	Tecni-
Tecnol.	Tecnolog-
Teil	Teilung
Territ.	Territor-
Tidschr.	Tidschrift-
Tijdschr.	Tijdschrift-
Topogr.	Topograf- Topograph-
Trab.	Trabajo- Trabalho-
Transp.	Transport-
Trav.	Travail- Travaux
U. K.	United Kingdom
UN OR U. N.	United Nations
U. N. D. P. or UNDP*	United Nations Development Programme
U. N. E. S. C. O. or UNESCO	United Nations Educational, Scientific and Cultural Organization
U. S. or US	United States
U. S. A. or USA	United States of America
U. S. S. R. or USSR	Union of Soviet Socialist Republics
Univ.	Universidad- Universit- Universytet- Univerzitet-
Util.	Utili-
Veg.	Vegeta- Vegetab- Vegetal- Vegetaux
Vol.	Volum-
Vses.	Veseoyuzn-
Wirtsh.	Wirtschaft-
Wiss.	Wissenchaft-
W. M. O. or WMO*	World Meteorological Organization of the United Nations
Work.	Worker- Working
Z.	Zeitung
Zool.	Zoolog-

*U.S. GOVERNMENT PRINTING OFFICE : 1983 0-381-227/OICD-2227

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